Planning and scheduling
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**Scheduling is apart from planing**

- **Planning :-**
  - Eg; Financial planning ,
  - like ;
- Retirement planning (what you will do after retirement )
- College education planning (which college you choose for your child )
- Young person have plane for ,a marring , car
Project planning

Project: temporary endeavor under taken to produce a unique product service

• May be we have similar project but every project is unique.

Project planning:

The process of choosing the one method and order of work to be adopted for a project from all the various way and sequences in which it could be done.
Project planning serves as a function for several related functions, such as:

- Cost estimating
- Scheduling
- Project control
- Quality control
- Safety management
Scheduling:

**Scheduling:**

Determination of the timing, sequence of operation in the project.

**Scheduling** deal with ‘when’ on a detailed level.

**relationship between project planning and scheduling explain in next example;**
** Assume you are planning for family vacation(project) for next summer:

- Your plane may include consideration such as these:

  - Who will go on the trip?
  - Which places do you want to visit? (You would like to visit many places, but your time and money resources are limited.)
  - What is the time frame for the vacation (just the starting and ending dates)?
  - What is the total budget for the “project” (including the contingency you did not tell other family members about)?
  - What types of activities do you want to participate in during the trip (sharp differences among the family members)?
The project schedule is simply the itinerary, such as this:

• Leave home in Tampa, Florida, on June 8, 2005.
• Arrive in Panama City on June 8, 2005.
• Leave Panama City on June 15, 2005.
• Arrive in Atlanta, Georgia, on June 15, 2005.
• Leave Atlanta on June 22, 2005.
• Arrive in Gatlinburg, Tennessee, on June 22, 2005.

• Return home to Tampa on July 7, 2005.
To do all that in best:

- it is important to decide who is the project manager
- who makes the final decision
The scheduler:-

A civil engineer, mathematician, Project manager, an artist or communicator

- Knowledge that a scheduler must have:
  1. Knowledge of computer software and hardware
  2. Knowledge of the principles of scheduling and project control
  3. Knowledge of the specific technical field and commercial building, industrial
Why schedule projects

1-Calculate the project completion date

2-To calculate start or end of specific activity

3-to expose and adjust conflicts between trades or sub contractors

4-To predict to calculate the cash flow.
5-To evaluate the effect of changes

6-To improve work effacing

7-to resolve delay claims

8-to serve as an effective project control tool
The need for CPM – longest bath in the network - schedule varies with several factors. In general, it increases with the increase in size and complexity of the project.

For example:

A home builder who has built tens or hundreds of almost identical homes may not have much need for a CPM schedule. Project control is still needed but may be conducted through simpler methods.
Project control

It is important to know at all time where you stand in relation to where you planned (the base line)

* You are behind schedule or over budget you must know why
* Take corrective action
* Minimize the deviation
* If deviation is positive = the project is ahead of schedule or under budget
*If actual performance was probably better than expected in the base line plane

*Concept at project control covers all aspects of the plan (budget, schedule, quality.....)

*The combination of good tools and an educated, experienced operation is the only path to success in project planning
* scheduling and project management

* project management team headed by the project manager (PM)

PM \rightarrow\text{project management team}

\text{project control} \quad \text{scheduling} \quad \text{Planning}

- cost control
- procurement
- quality management
- safety management